

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1008164

Luminaire Tested: S122DIP-B675D330UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008164
REPORT IS A COMBINATION OF REPORTS P984492 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D330UB2750-4F0-XX-W2A-D_2700K
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

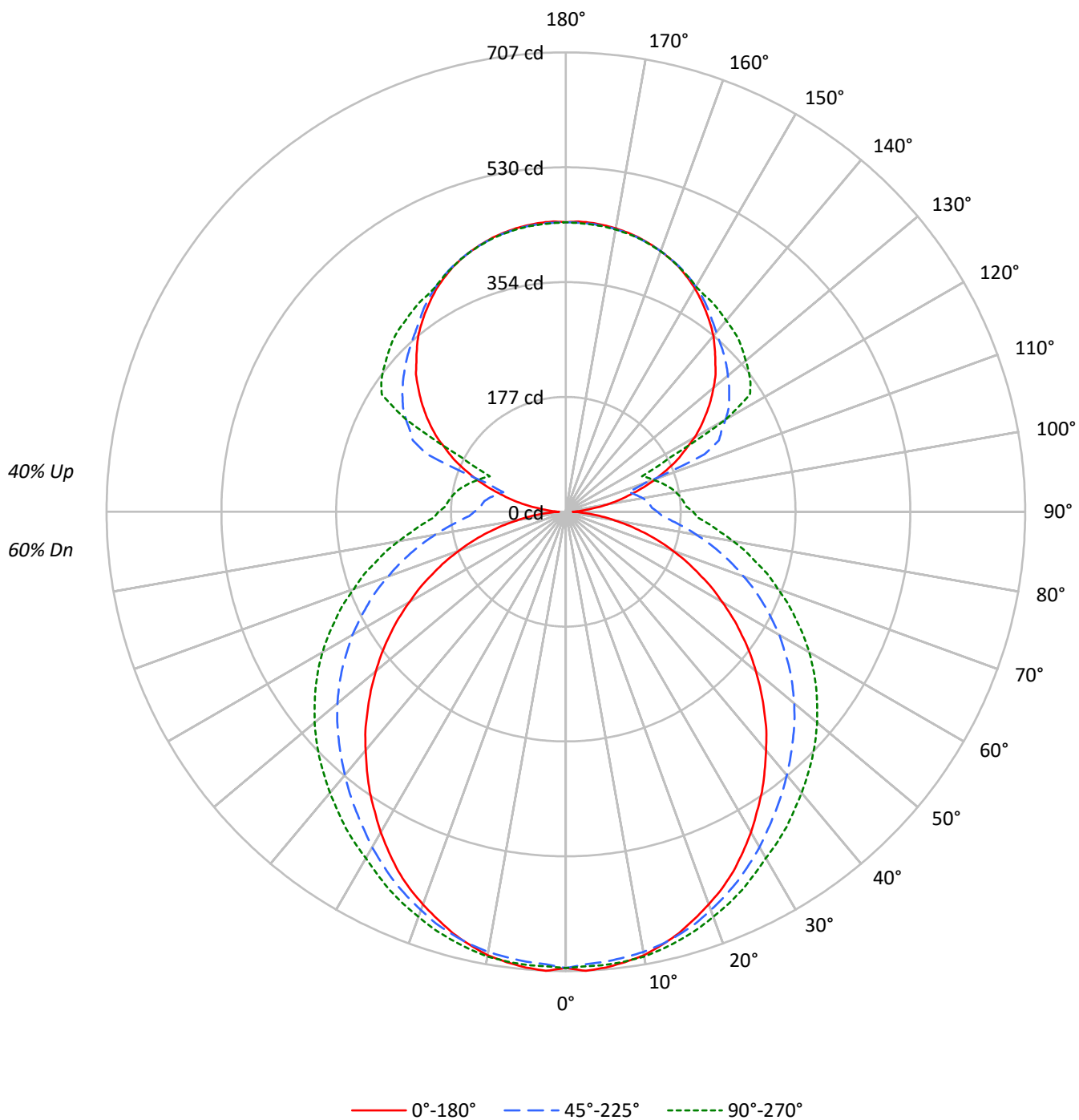
Lumens per Lamp: N/A
Luminaire Lumens: 3986.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	109	109	109	109		102	102	102	102		89	89	89		76	76	76		65	65	65
1	98	93	88	84		91	87	83	79		75	72	69		65	62	60		55	53	51
2	89	80	73	67		82	75	69	63		65	60	56		56	52	49		47	44	42
3	80	70	62	55		75	65	58	52		57	51	46		49	44	40		41	38	35
4	73	62	53	46		68	58	50	44		50	44	39		43	38	34		36	33	30
5	67	55	46	39		62	51	43	37		45	38	33		38	33	29		33	29	25
6	62	49	40	34		57	46	38	32		40	34	29		35	29	26		30	25	22
7	57	44	36	30		53	41	34	28		36	30	25		31	26	22		27	23	20
8	53	40	32	26		49	38	30	25		33	27	22		29	24	20		25	21	17
9	49	36	29	23		46	34	27	22		30	24	20		26	21	18		23	19	16
10	46	33	26	21		43	32	25	20		28	22	18		24	20	16		21	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11114	11114	11114
5°	11164	10640	10580
10°	11090	10272	10121
15°	10933	9890	9652
20°	10735	9489	9204
25°	10540	9106	8801
30°	10267	8717	8399
35°	9991	8341	8105
40°	9701	8016	7813
45°	9422	7722	7558
50°	9125	7451	7307
55°	8812	7162	7051
60°	8430	6861	6782
65°	8031	6517	6471
70°	7579	6146	6139
75°	7004	5777	5822
80°	6092	5389	5498
85°	5170	5025	5216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9422 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.7
10°-20°	190.9	4.8
20°-30°	289.2	7.3
30°-40°	352.2	8.8
40°-50°	379.0	9.5
50°-60°	368.0	9.2
60°-70°	321.4	8.1
70°-80°	247.4	6.2
80°-90°	166.5	4.2
90°-100°	129.0	3.2
100°-110°	138.2	3.5
110°-120°	200.4	5.0
120°-130°	271.6	6.8
130°-140°	268.8	6.7
140°-150°	240.0	6.0
150°-160°	191.2	4.8
160°-170°	123.2	3.1
170°-180°	42.4	1.1
0°-30°	546.7	13.7
0°-40°	898.9	22.6
0°-60°	1645.9	41.3
0°-90°	2381.1	59.7
90°-120°	467.6	11.7
90°-150°	1248.0	31.3
90°-180°	1605.0	40.3
0°-180°	3986.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	704	701	695	701	700	67
15°	672	674	674	683	682	189
25°	610	618	627	639	642	281
35°	526	543	563	585	592	329
45°	431	459	494	526	536	333
55°	331	367	420	457	470	296
65°	226	276	336	378	391	224
75°	125	182	247	291	304	132
85°	37	100	165	208	222	39
90°	10	73	141	183	196	8
95°	29	66	130	170	182	31
105°	103	142	107	146	159	111
115°	190	206	260	141	129	186
125°	264	268	307	337	347	236
135°	325	330	344	368	376	252
145°	376	376	381	390	393	236
155°	414	411	415	417	415	191
165°	436	435	436	438	436	123
175°	446	444	445	447	444	42
180°	446	446	446	446	446	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.1	702.1	702.1	702.1	702.1
2.5°	707.2	704.1	697.0	702.1	700.1
5°	704.1	701.1	695.0	701.1	700.1
7.5°	699.1	697.0	691.9	699.1	698.0
10°	693.0	690.9	687.9	696.0	695.0
12.5°	682.8	683.8	681.8	689.9	688.9
15°	671.6	673.6	673.6	682.8	681.8
17.5°	657.3	661.4	664.5	673.6	673.6
20°	643.1	648.2	652.2	663.4	663.4
22.5°	627.8	633.9	640.0	651.2	653.3
25°	610.5	617.7	626.8	639.0	642.1
27.5°	590.2	601.4	611.5	626.8	628.8
30°	569.8	583.1	596.3	612.6	615.6
32.5°	547.4	562.7	579.0	598.3	604.4
35°	526.1	543.4	562.7	585.1	592.2
37.5°	502.7	522.0	546.4	570.8	578.0
40°	479.3	501.7	529.1	555.6	564.7
42.5°	456.9	479.3	511.8	541.3	550.5
45°	431.4	458.9	494.5	526.1	536.2
47.5°	407.0	436.5	477.2	509.8	521.0
50°	381.6	413.1	458.9	493.5	504.7
52.5°	357.2	390.7	439.6	475.2	487.4
55°	330.7	367.3	420.2	456.9	470.1
57.5°	305.3	346.0	398.9	438.6	451.8
60°	277.8	321.5	379.5	418.2	432.5
62.5°	253.4	299.2	357.2	398.9	412.1
65°	225.9	275.8	335.8	377.5	390.7
67.5°	201.5	253.4	314.4	356.1	370.4
70°	175.0	227.9	291.0	334.8	347.0
72.5°	150.6	205.5	269.7	312.4	327.7
75°	125.2	182.1	247.3	291.0	304.2
77.5°	100.7	159.8	225.9	269.7	283.9
80°	76.3	138.4	204.5	247.3	261.5
82.5°	56.0	117.0	184.2	226.9	240.1
85°	36.6	99.7	164.8	207.6	221.8
87.5°	22.4	83.4	148.6	190.3	203.5
90°	10.5	73.1	140.7	183.1	195.9
92.5°	17.3	69.9	132.9	173.2	185.8
95°	29.1	66.3	129.6	169.9	181.8
97.5°	44.8	62.2	126.3	164.9	177.5
100°	64.2	57.7	120.2	160.4	172.2
102.5°	84.4	117.4	113.6	153.9	166.0
105°	103.1	142.3	107.2	146.3	158.8
107.5°	126.0	158.5	100.7	138.9	151.3
110°	146.9	174.0	130.7	131.0	143.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	167.6	189.7	231.0	124.5	136.7
115°	189.5	206.2	260.0	141.2	129.2
117.5°	207.5	222.0	270.2	254.7	180.4
120°	228.8	237.6	284.1	316.5	284.2
122.5°	246.8	253.0	297.0	326.5	336.0
125°	264.1	268.3	307.0	336.8	346.9
127.5°	280.9	284.4	316.7	345.3	354.9
130°	296.7	300.8	325.8	353.7	361.5
132.5°	312.8	316.0	334.8	361.1	368.9
135°	325.3	330.5	343.6	368.2	375.7
137.5°	339.5	343.4	351.7	374.2	380.5
140°	353.4	355.0	360.5	379.7	384.2
142.5°	365.0	366.2	370.4	385.2	388.7
145°	376.2	375.9	381.4	389.8	393.2
147.5°	386.9	385.9	391.4	394.0	395.8
150°	397.2	394.9	400.1	402.0	400.4
152.5°	405.9	403.3	408.2	410.1	407.8
155°	414.3	411.4	415.3	417.2	414.6
157.5°	421.1	418.5	421.4	423.6	421.1
160°	426.9	424.9	426.9	428.8	426.5
162.5°	432.0	430.1	431.7	434.0	431.0
165°	436.5	434.6	435.6	437.8	435.6
167.5°	440.1	438.1	439.1	441.4	438.5
170°	443.0	441.0	441.7	443.9	441.0
172.5°	444.9	443.0	443.6	445.9	443.0
175°	446.5	444.3	444.9	447.2	443.9
177.5°	447.2	444.9	445.2	447.5	444.6
180°	445.6	445.6	445.6	445.6	445.6

(END OF REPORT)